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ELECTRONIC

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/659,831	09/10/2003	Peter J. Black	990486D1	5958	
20070	23696 7590 04/24/2007 QUALCOMM INCORPORATED			EXAMINER	
5775 MOREHOUSE DR. SAN DIEGO, CA 92121			TSEGAY	TSEGAYE, SABA	
		•	ART UNIT	PAPER NUMBER	
			2616		
SHORTENED STATUTORY	PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE		

Please find below and/or attached an Office communication concerning this application or proceeding.

04/24/2007

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 04/24/2007.

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3 MONTHS

	Application No.	Applicant(s)			
	10/659,831	BLACK ET AL.			
Office Action Summary	Examiner	Art Unit			
	Saba Tsegaye	2616			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was realiure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 10 Set This action is FINAL . 2b)⊠ This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final.				
Disposition of Claims		•			
4) ⊠ Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-11 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine 11).	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage			
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Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the second PN generator; the third device that transmits at third frequency and a third generator that generates a third PN sequence must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 112

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2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claim 7 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification fails to disclose a third device that transmits at third frequency and a third generator that generates a third PN sequence.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1, 2, 4, 5, 6 and 8-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Yang et al. (US 6,731,674 B1).

Regarding claim 1, Yang discloses, in Fig. 14, an apparatus, comprising:

- a first device to transmit at a first frequency (see fig. 12; 1st channel signal);
- a first PN generator to generate a first PN sequence at a first offset (1217);

area as the second device (1411, 1425).

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a first spreader to receive and spread a first pilot data with the first PN sequence (1411, 1423);

a second device to transmit at a second frequency (fig. 12; 2nd channel signal);

a second PN generator to generate a second PN sequence at a second offset (1217); and

a second spreader to receive and spread a second pilot data with the second PN sequence, wherein the first device is positioned to transmit over at least a portion of the same geographic

Regarding claims 2 and 4, Yang discloses the apparatus wherein the first frequency uses is different CDMA format than the second frequency (column17, lines 48-56).

Regarding claim 3, Yang discloses device and method for generating PN sequence associated with IS-95A/IS-95B and future CDMA system that sports the variable data rate. Further, Yang discloses a channel transmitter for spreading channel signals using quasi-orthogonal codes and Walsh orthogonal codes in a CDMA communication system.

Regarding claims 5, 6, 9, and 10, Yang discloses a CDMA mobile communication system in IS-95A/IS-95B standards. According to IS-95 standards, the short code I-sequence is associated $P_{1,2} = x15 + x13 + x9 + x8 + x7 + x5 + 1$ and Q-sequence is associated with the polynomial $P_{Q,1} = X15 + x12 + x11 + x10 + x6 + x5 + x4 + x3 + 1$.

Regarding claim 8, Yang discloses an apparatus, comprising: a plurality of devices transmit a plurality of signals each using a different CDMA format (column 1, lines 24-35);

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means of generating a plurality of pilot signal from uncorrelated PN sequences for the plurality of signals (see fig. 14).

6. Claims 8-11 are rejected under 35 U.S.C. 102(e) as being anticipated by McDonough et al. (US 6,748,006 B1).

Regarding claim 8, McDonough discloses an apparatus, comprising: a plurality of devices transmit a plurality of signals each using a different CDMA format (column 15, lines 1-11 and column 26, lines 10-19); means of generating a plurality of pilot signal from uncorrelated PN sequences for the plurality of signals (column 26, lines 31-43).

Regarding claims 9 and 10, McDonough disclose the apparatus wherein means for generating the plurality of pilot singles based on the polynomials (column 13, lines 1-8).

Regarding claim 11, McDonough discloses wherein means for generating the plurality of pilot signals includes at least one pilot signal that is gated in time (column 26, lines 28-30).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Saifuddin et al. (US 6,603,752 B1) disclose a method and system for controlling transmission energy in a variable rate gated communication system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saba Tsegaye whose telephone number is (571) 272-3091. The examiner can normally be reached on Monday-Friday (7:30-5:00), First Friday off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ST April 13, 2007

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EXAMINEI